

#16



ENTERED PCT09

RAW SEQUENCE LISTING

DATE: 08/20/2002

PATENT APPLICATION: US/09/674,716B

TIME: 10:58:26

Input Set : A:\09674716.txt

Output Set: N:\CRF3\08202002\I674716B.raw

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3 <110> APPLICANT: BONNEFOY, Jean-Yves M.P.
4     CROWE, James S.
5     ELLIS, Jonathan H.
6     RAPSON, Nicholas T.
7     SHEARIN, Jean
9 <120> TITLE OF INVENTION: Antibodies to CD23, derivatives thereof, and their
therapeutic uses
11 <130> FILE REFERENCE: 1430-256 / PG3433USw0
13 <140> CURRENT APPLICATION NUMBER: US 09/674,716B
14 <141> CURRENT FILING DATE: 2001-01-22
16 <150> PRIOR APPLICATION NUMBER: CA 2,328,606
17 <151> PRIOR FILING DATE: 1999-05-07
19 <150> PRIOR APPLICATION NUMBER: PCT/GB99/01434
20 <151> PRIOR FILING DATE: 1999-05-07
22 <150> PRIOR APPLICATION NUMBER: GB 9809839.5
23 <151> PRIOR FILING DATE: 1998-05-09
25 <160> NUMBER OF SEQ ID NOS: 54
27 <170> SOFTWARE: MS Word
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 415
31 <212> TYPE: DNA
32 <213> ORGANISM: Mus musculus
34 <220> FEATURE:
35 <221> NAME/KEY: CDS
36 <222> LOCATION: (3)..(413)
38 <400> SEQUENCE: 1
39 aa gct tta cag tta ctc agc acacag gac ctc acc atg gat ttt ggg      47
40   Ala Leu Gln Leu Leu Ser Thr Gln Asp Leu Thr Met Asp Phe Gly
41     1             5             10             15
43 ctg att ttt ttt att gtt ctt tta aaa ggg gtc cag agt gaa gtg aag      95
44 Leu Ile Phe Phe Ile Val Leu Leu Lys Gly Val Gln Ser Glu Val Lys
45           20           25           30
47 ctt gag gag tct gga gga ggc ttg gtg caa cct gga gga tcc atg aaa      143
48 Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Met Lys
49           35           40           45
51 ctc tcc tgt gta gcc tct gga ttt act ttc agt ggc tac tgg atg tct      191
52 Leu Ser Cys Val Ala Ser Gly Phe Thr Phe Ser Gly Tyr Trp Met Ser
53           50           55           60
55 tgg gtc cgc cag tct cca gag aag ggg ctt gag tgg gtt gct gaa att      239
56 Trp Val Arg Gln Ser Pro Glu Lys Gly Leu Glu Trp Val Ala Glu Ile
57           65           70           75
59 aga ttg aaa tct gat aat tat gca aca cat tat gcg gag tct gtg aaa      287
60 Arg Leu Lys Ser Asp Asn Tyr Ala Thr His Tyr Ala Glu Ser Val Lys
61 80             85             90             95

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63 ggg aag ttc acc atc tca aga gat gat tcc aaa agt cgt ctc tac ctg      335
64 Gly Lys Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser Arg Leu Tyr Leu
65              100              105              110
67 caa atg aac agc tta aga gct gaa gac agt gga gtt tat tac tgt aca      383
68 Gln Met Asn Ser Leu Arg Ala Glu Asp Ser Gly Val Tyr Tyr Cys Thr
69              115              120              125
71 gat ttc ata gac tgg ggc caa ggg aca cta gt                          415
72 Asp Phe Ile Asp Trp Gly Gln Gly Thr Leu
73              130              135
75 <210> SEQ ID NO: 2
76 <211> LENGTH: 437
77 <212> TYPE: DNA
78 <213> ORGANISM: Mus musculus
80 <220> FEATURE:
81 <221> NAME/KEY: CDS
82 <222> LOCATION: (3)..(437)
84 <400> SEQUENCE: 2
85 aa gct tta cag tta ctc agc aca cag gac ctc acc atg agg ttc tct      47
86   Ala Leu Gln Leu Leu Ser Thr Gln Asp Leu Thr Met Arg Phe Ser
87       1              5              10              15
89 gtt cag ttt ctg ggg gtg ctt atg ttc tgg atc tct gga gtc agt ggg      95
90 Val Gln Phe Leu Gly Val Leu Met Phe Trp Ile Ser Gly Val Ser Gly
91              20              25              30
93 gat att gtg ata acc cag gat gaa ctc tcc aat cct gtc act tct gga      143
94 Asp Ile Val Ile Thr Gln Asp Glu Leu Ser Asn Pro Val Thr Ser Gly
95              35              40              45
97 gaa tca gtt tcc atc tcc tgc agg tct agt aag agt ctc ctg tat aag      191
98 Glu Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu Leu Tyr Lys
99              50              55              60
101 gat ggg aag aca tac ttg aat tgg ttt ctg cag aga cca gga caa tct      239
102 Asp Gly Lys Thr Tyr Leu Asn Trp Phe Leu Gln Arg Pro Gly Gln Ser
103       65              70              75
105 cct cag ctc ctg atg tat ttg atg tcc acc cgt gca tca gga gtc tca      287
106 Pro Gln Leu Leu Met Tyr Leu Met Ser Thr Arg Ala Ser Gly Val Ser
107       80              85              90              95
109 gac cgg ttt agt ggc agt ggg tca ggc aca gat ttc acc ctg gaa atc      335
110 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Glu Ile
111              100              105              110
113 agt aga gtg aag gct gag gat gtg ggt gtg tat tac tgt caa caa ctt      383
114 Ser Arg Val Lys Ala Glu Asp Val Gly Val Tyr Tyr Cys Gln Gln Leu
115              115              120              125
117 gta gag tat cca ttc acg ttc ggc tcg ggg aca aag ttg gaa ata aaa      431
118 Val Glu Tyr Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
119              130              135              140
121 cgt acg                          437
122 Arg Thr
123       145
125 <210> SEQ ID NO: 3
126 <211> LENGTH: 16

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127 <212> TYPE: PRT
128 <213> ORGANISM: Mus musculus
130 <400> SEQUENCE: 3
131 Arg Ser Ser Lys Ser Leu Leu Tyr Lys Asp Gly Lys Thr Tyr Leu Asn
132   1           5           10           15
134 <210> SEQ ID NO: 4
135 <211> LENGTH: 48
136 <212> TYPE: DNA
137 <213> ORGANISM: Mus musculus
139 <220> FEATURE:
140 <221> NAME/KEY: CDS
141 <222> LOCATION: (1)..(48)
143 <400> SEQUENCE: 4
144 cgc tgc agt aag agt ctc ctg tat aag gat ggg aag aca tac ttg aat   48
145 Arg Ser Ser Lys Ser Leu Leu Tyr Lys Asp Gly Lys Thr Tyr Leu Asn
146   1           5           10           15
148 <210> SEQ ID NO: 5
149 <211> LENGTH: 7
150 <212> TYPE: PRT
151 <213> ORGANISM: Mus musculus
153 <400> SEQUENCE: 5
154 Leu Met Ser Thr Arg Ala Ser
155   1           5
157 <210> SEQ ID NO: 6
158 <211> LENGTH: 21
159 <212> TYPE: DNA
160 <213> ORGANISM: Mus musculus
162 <220> FEATURE:
163 <221> NAME/KEY: CDS
164 <222> LOCATION: (1)..(21)
166 <400> SEQUENCE: 6
167 ttg atg tcc acc cgg gca tca   21
168 Leu Met Ser Thr Arg Ala Ser
169   1           5
171 <210> SEQ ID NO: 7
172 <211> LENGTH: 9
173 <212> TYPE: PRT
174 <213> ORGANISM: Mus musculus
176 <400> SEQUENCE: 7
177 Gln Gln Leu Val Glu Tyr Pro Phe Thr
178   1           5
180 <210> SEQ ID NO: 8
181 <211> LENGTH: 27
182 <212> TYPE: DNA
183 <213> ORGANISM: Mus musculus
185 <220> FEATURE:
186 <221> NAME/KEY: CDS
187 <222> LOCATION: (1)..(27)
189 <400> SEQUENCE: 8

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190  caa cag ctg gta gag tat cca ttc acg
191  Gln Gln Leu Val Glu Tyr Pro Phe Thr
192    1                    5
194  <210> SEQ ID NO: 9
195  <211> LENGTH: 5
196  <212> TYPE: PRT
197  <213> ORGANISM: Mus musculus
199  <400> SEQUENCE: 9
200  Gly Tyr Trp Met Ser
201    1                    5
203  <210> SEQ ID NO: 10
204  <211> LENGTH: 15
205  <212> TYPE: DNA
206  <213> ORGANISM: Mus musculus
208  <220> FEATURE:
209  <221> NAME/KEY: CDS
210  <222> LOCATION: (1)..(15)
212  <400> SEQUENCE: 10
213  ggc tac tgg atg tcc
214  Gly Tyr Trp Met Ser
215    1                    5
217  <210> SEQ ID NO: 11
218  <211> LENGTH: 19
219  <212> TYPE: PRT
220  <213> ORGANISM: Mus musculus
222  <400> SEQUENCE: 11
223  Glu Ile Arg Leu Lys Ser Asp Asn Tyr Ala Thr His Tyr Ala Glu Ser
224    1                    5              10              15
226  Val Lys Gly
229  <210> SEQ ID NO: 12
230  <211> LENGTH: 57
231  <212> TYPE: DNA
232  <213> ORGANISM: Mus musculus
234  <220> FEATURE:
235  <221> NAME/KEY: CDS
236  <222> LOCATION: (1)..(57)
238  <400> SEQUENCE: 12
239  gaa att aga ttg aaa tct gat aat tat gca aca cat tat gcg gag tct
240  Glu Ile Arg Leu Lys Ser Asp Asn Tyr Ala Thr His Tyr Ala Glu Ser
241    1                    5              10              15
243  gtg aag ggg
244  Val Lys Gly
246  <210> SEQ ID NO: 13
247  <211> LENGTH: 3
248  <212> TYPE: PRT
249  <213> ORGANISM: Mus musculus
251  <400> SEQUENCE: 13
252  Phe Ile Asp
253    1

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27

15

48

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255 <210> SEQ ID NO: 14
256 <211> LENGTH: 9
257 <212> TYPE: DNA
258 <213> ORGANISM: Mus musculus
260 <220> FEATURE:
261 <221> NAME/KEY: CDS
262 <222> LOCATION: (1)..(9)
264 <400> SEQUENCE: 14
265 ttc ata gac
266 Phe Ile Asp
267 1
269 <210> SEQ ID NO: 15
270 <211> LENGTH: 19
271 <212> TYPE: PRT
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic sequence
277 <400> SEQUENCE: 15
278 Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
279 1 5 10 15
281 Val His Ser
284 <210> SEQ ID NO: 16
285 <211> LENGTH: 19
286 <212> TYPE: PRT
287 <213> ORGANISM: Artificial Sequence
289 <220> FEATURE:
290 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic sequence
292 <400> SEQUENCE: 16
293 Met Ala Trp Val Trp Thr Leu Leu Phe Leu Met Ala Ala Ala Gln Ser
294 1 5 10 15
296 Ala Gln Ala
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300 <211> LENGTH: 348
301 <212> TYPE: DNA
302 <213> ORGANISM: Artificial Sequence
304 <220> FEATURE:
305 <223> OTHER INFORMATION: Description of Artificial Sequence: Humanised anti-CD23
antibody VL region
307 <220> FEATURE:
308 <221> NAME/KEY: CDS
309 <222> LOCATION: (1)..(348)
311 <400> SEQUENCE: 17
312 gat att gtg atg act cag tct cca ctc tcc ctg ccc gtc acc cct gga 48
313 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
314 1 5 10 15
316 gag ccg gcc tcc atc tcc tgt cgc tcg agt aag agt ctc ctg tat aag 96
317 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu Leu Tyr Lys
318 20 25 30
320 gat ggg aag aca tac ttg aat tgg tac ctg cag aag cca ggg cag tct 144
321 Asp Gly Lys Thr Tyr Leu Asn Trp Tyr Leu Gln Lys Pro Gly Gln Ser

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RAW SEQUENCE LISTING ERROR SUMMARY
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Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:17; Line(s) 305
Seq#:18; Line(s) 350
Seq#:48; Line(s) 812
Seq#:49; Line(s) 828
Seq#:52; Line(s) 930
Seq#:53; Line(s) 963

VERIFICATION SUMMARY

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